

Table e-2**PCR primers designed to amplify the 17 exons of *VCP* gene**

VCPe1F	CTTGCCACCGCTCGTAG
VCPe1R	TCCTGGTCTCCACCTCTCTG
VCPe2-3F	AAGTATGAGTTTTAGAGACTGGCG
VCPe2-3R	CATGGGTCCTGCCTGTAATG
VCPe4F	CTTTTGGACACCCAGTGCTT
VCPe4R	TGTTCCAAGGTTTATTCCCTACA
VCPe5Fb	TCACTTTGTCTTGTAGTTGACACC
VCPe5Rb	TACCACATGATGCCCACTG
VCPe6F	GAGAAACTCAGCTTTTGCTGATA
VCPe6R	GAAAGCCATGCATGAAAACA
VCPe7F	AAGCCTGATTCTCACCTCTC
VCPe7R	GCTCCAGCTCATAAGCCCAG
VCPe8-9F	ACCTGTCTCTGGGCCAAAC
VCPe8-9R	TGGACCCAATCACTGTGAAG
VCPe10F	GGTACCCTAGGCCTGTCTC
VCPe10R	GTCTCTAGCCAGTTCCCAGC
VCPe11-12F	ATTGTCTCTGAGCCTCCTGC
VCPe11-12R	CAGCAAATGTGTTGACACCC
VCPe13F	TAATGGAGGGGATGCTTCTG
VCPe13R	CAGTTGAGCAGCCAGCAC
VCPe14F	CCACCACGTTTGCCTAGAG
VCPe14R	AAAGAGCACTCCGTACCAGC
VCPe15F	GGTAGCCCAAAGATCTGC
VCPe15R	TCTACTCTCAACTCCAGGGC
VCPe16-17F	GGAGGCCTGGGATGAAATC
VCPe16-17R	ACCCCTGGTCCCTCTCC

PCR conditions:

95 °C for 5 minutes initially, followed by 30 cycles at 95 °C for 30 seconds, 65 °C for 30 seconds; with a -0.5 °C decrement of temperature per cycle, and 72 °C for 1 minute. Additionally, 15 cycles at 95 °C for 30 seconds, 65 °C for 30 seconds and 72 °C for 1 minute, as well as a final extension time of 7 minutes at 72 °C were added.

The high GC content of exon1 (75%) required the use of AccuPrime GC-Rich DNA

polymerase (Invitrogen cat no.12337-016).